

# Versatile Systems from Barix and BSW



Can't decide? See our  
comparison chart p. 53

Reliable, cost-effective  
encoding/decoding!



## Barix Encoder/Decoder/Codec Audio Systems

The Barix **Instreamer 100** MP3 audio encoder is a versatile, network-enabled analog and digital audio-to-Ethernet converter for broadcast audio distribution. It converts audio from an analog or digital device into high-quality MP3 streams. The audio is encoded in real-time, and the generated audio stream can be distributed, via an IP-based network or the Internet, to one or more receivers or Shoutcast/Icecast-servers. It can be easily managed via a web browser interface using PCs, web pads, PDAs or other web-enabled devices.

With serial and Ethernet control APIs, open IP-standards, and the MP3 format, the device can also be integrated with other components, controlled by automation systems, or used with Barix's **Exstreamer 100** MP3 audio decoder as a flexible, cost-effective networked audio system. The Exstreamer 100 provides unbalanced RCA outputs, and a headphone jack, along with Ethernet connection and web-browser control. The **Exstreamer 110** is a versatile network audio decoder for a variety of applications. It enables users to create flexible, cost-effective distributed audio systems using standard IP technology. It plays MP3, G.711 & PC audio files from PC or web server as well as legacy digital and analog sources (using the Barix Instreamer) and streams from sources like Shoutcast, Icecast or RTP servers (Instreamer). It provides a backlit LCD showing status and metadata information, unbalanced RCA outputs and a headphone jack, along with Ethernet connection and web-browser control. The **Exstreamer 500** is a professional IP Audio codec featuring balanced analog audio interfaces and contact closures. A USB flash interface allows use of external memory to store audio files. The low power, reliable architecture makes the device an ideal choice for STL applications, professional audio endpoints (with IP or Ethersound protocol) and generic audio routing applications.

The **Annunicom 100** is a versatile IP Intercom and PA device, capable of full duplex (bidirectional) streaming of uncompressed audio formats, such as PCM, u-law, or a-law, or half-duplex encoding or decoding of MP3 streams. With its two contact closure inputs and built-in relay, the Annunicom 100 provides the necessary I/O for push to call and door opener functionality. A built-in speaker output and microphone amplifier allow direct connection of microphone and speaker. Line level inputs and outputs are also available.

<b>INSTREAMER100</b>	MP3 audio encoder	List \$395.00
<b>EXSTREAMER100</b>	MP3 audio decoder	List \$195.00
<b>EXSTREAMER110</b>	Network audio decoder	List \$249.00
<b>EXSTREAMER500</b>	Stereo audio codec	List \$595.00
<b>ANNUNICOM100</b>	Stereo audio codec	List \$395.00
<b>BARIXRACKMOUNT</b>	To mount Barix audio devices in a standard 19" rack	List \$140.00
<b>BARIXMOUNTINGBRACKET</b>	Mounting bracket for Instreamer 100 or Exstreamer 100	List \$8.00

Contact BSW For Lowest Prices

## Barix MP3 Encoder or Decoder with Balanced Digital I/O

The Barix **Exstreamer 1000** is a versatile network device that can function either as an audio encoder or decoder for a variety of high quality audio applications. The Barix Exstreamer1000 features AES/EBU in and out to provide a fully digital transmission path.

- Encodes or decodes audio in high quality
- AES/EBU and balanced stereo audio interfaces (inputs and outputs) via 9-pin connection
- Supports streaming (http, UDP, RTP) with automatic failover and USB playback
- 10/100 Mbit Ethernet connection
- Contact closure interfaces (4 in, 4 relays)
- Control via standard web browser as well as serial, TCP, UDP, cgi API

**EXSTREAMER1000** MP3 audio encoder or decoder (must buy two for system) List \$950.00

**Accessories:** Contact BSW For Lowest Prices  
**BARIXCABLESET** Breakout Cable \$50.00



This just in: BSW's fully stocked Ohio warehouse is dedicated to getting your order out the same day you place it!

## MP3 and PCM Encoder/Decoders

Digigram's PYKO encoders and decoders are priced for maximum value for all types of IP audio stream applications such as STL, remote broadcast and distributed audio.



| Great for STL!

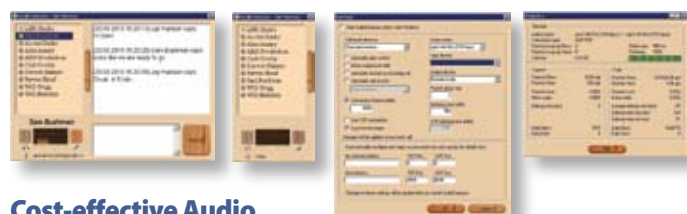
PYKO-IN

- 8GB memory for audio loss-of-signal backup (PYKO-OUT-PNP)
- Very friendly web user-interface
- STL links in unicast, multicast and unimulticast formats
- Balanced audio I/Os on terminal block connectors, +18 dBu max levels
- 8 GPIOs, RS232
- Internal and external USB host ports
- PYKO-Out decodes standard RTP streams



<b>PYKO-IN</b>	Encoder	List \$715.00
<b>PYKO-OUT</b>	Decoder	List \$525.00
<b>PYKO-OUT-PNP</b>	8-gig memory	List \$525.00

**Contact BSW For Lowest Prices**



## Cost-effective Audio Over IP Software Bundle

Audio Compass is a great software solution for your remote broadcasting needs. This special bundle gives you both software solutions: Audio Compass Navigator, for server based (GUI) audio over IP, and Audio Compass P2P, a point-to-point command-based broadcast option. With either software, after your initial setup, you are on the air with a single click.

### AUDIO COMPASS P2P FEATURES:

- Bi-directional text chat
- G.722 Codec
- Automatic Gain Control
- Control over packet group size for those difficult wireless connections
- Improved audio quality and stability when other applications are running

### AUDIO COMPASS NAVIGATOR FEATURES:

- See all broadcast locations in your account group
- Text-chat to all members of your team, instantly
- Nat Traversal Server
- UDP and TCP support
- Support for LAN, WAN, Public Internet and 3G Wireless Networks
- Remotely control audio switchers and send relay closures via RS232 serial port
- Direct control over its audio buffer
- Choose from the SPEEX, ILBC, G711, G722 and GSM Codecs
- Flexible Audio Quality - 8Khz to 44Khz



**AC-COMBO-1** List \$200.00 **Contact BSW For Lowest Prices**

## Incredibly Portable Mixer/Codec/Hybrid

The AEQ TLE-02D combines a portable mixer, audio codec, digital telephone hybrid and a frequency extender in one very compact and easy-to-use unit

**TLE02D** List \$2,020.00 **Contact BSW For Lowest Prices**



| Handles two remotes at once!

## Flexible Dual-Channel ISDN Codec

The EAGLE – a tried and true and well known dual-channel ISDN audio codec. Imagine having two remote broadcasts feeding audio to the studio, and all three locations communicating with one another! Eagle's unique multiplexing capabilities does that and a whole lot more. The Eagle can also interface with many popular codecs on the market. And when ISDN lines aren't readily available, EAGLE has a back-up POTS mode with frequency extender.

- Analog and Digital inputs and outputs
- Dual-channel for 64 or 128 kbps encoding modes
- G.711, G.722 and MPEG
- Mic input; headphone and front phone jacks
- VU metering of send/receive audio
- Built-in terminal adaptor for U.S.A. (Nat 1) and Europe (Euro ISDN)
- Silent operation (no fan)

*Can't decide? See our comparison chart p. 53*



**EAGLE** List \$2,995.00 **Contact BSW For Lowest Prices**



## Codecs for Field or Studio

PHOENIX STUDIO – a rack mount, dual channel, full duplex stationary codec designed to communicate with the PHOENIX MOBILE or any N/ACIP compliant codec. A complete and versatile communications platform able to connect with any two audio codecs simultaneously providing diverse connectivity options. Easy to navigate advanced user interface using front panel controls and associated on-screen menus. Complete SIP support – use of AEQ's SIP server offered Free Of Charge to PHOENIX customers. Adaptive buffer mitigates network jitter. Built-in web server for IP based remote control and configuration. Also great as a totally flexible and complete STL solution. AEQ's "PHOENIX POCKET", "PHOENIX LITE", and "PHOENIX PC" smart phone apps and associated smart phone mic/headphone cable kit(s) are great additions to use for connecting to this codec via 3G/4G/WiFi and your computer!

**PHOENIXSTUDIO** List \$2,585.00 **Contact BSW For Lowest Prices**

**ISDN MODULE** List \$815.00

**MP3 & AAC OPTIONAL CODECS** - CALL US



## Codec and Mixer Platform

The PHOENIX MOBILE is an all-in-one portable codec, digital mixer, and communications platform. Has 2 mic inputs, 2 headphone outputs, 1 mic/line input, 1 stereo line level input, 1 line level stereo output, built-in IP, optional ISDN and PSTN modules, protective cover and 12V DC power supply/charger. It features dual channels for backup and coordination/talkback, as well as an easy to navigate advanced user interface. Totally connection interoperability with the PHOENIX STUDIO or any N/ACIP compliant codec. Two slots for optional communication modules (POTS and ISDN). Great for doing remotes. AEQ's new "PHOENIX POCKET", "PHOENIX LITE", and "PHOENIX PC" smart phone apps and associated smart phone mic/headphone cable kit(s) are great additions to use for connecting to this codec via 3G/4G/WiFi and your computer!

**PHOENIX FE** List \$4,820.00

**PHOENIX MOBILE** List \$2,955.00



### Accessories:

- PHOENIXBATTERYPACK** LI-ION Battery Pack
- PHOENIX-PGA-01POTS** For analog phone line
- PHOENIX-PGA-03RDSI** For ISDN phone line

**Contact BSW For Lowest Prices**

List \$405.00

List \$610.00

List \$915.00



**THIS CODEC HAS BEEN THROUGH  
TWO WARS, MULTIPLE ELECTIONS,  
FLOODS, FAMINE, EARTHQUAKES,  
HURRICANES, MARATHONS,  
CHAMPIONSHIP GAMES, REGATTAS,  
LOTS OF CONCERTS  
AND WAY TOO MANY  
CLUB EVENTS TO ADMIT.**



IP • 3G • Wi Fi • 4G • BGAN / VSAT • PSTN • DSL  
**ACCESS**  
2USB

**NOW, WITH 4G COMPATIBILITY,  
WHERE WILL *YOU* TAKE IT?**

TELL US HOW YOU USE YOUR ACCESS AND WE'LL POST IT AT OUR ROAD WARRIOR BLOG:  
[remotes.comrex.com](http://remotes.comrex.com)

[comrex.com](http://comrex.com)

**COMREX**

BSW IS YOUR NUMBER ONE SOURCE FOR ACCESS2 USB FROM COMREX. CALL US AT 800-426-8434 FOR YOUR BEST PRICE!

Upgrade your ACCESS Classic to support 4G – FREE! Visit [www.comrex.com/support/products/access.html](http://www.comrex.com/support/products/access.html)



# BSW Is Your Comrex Connection



## ACCESS, Our Most Popular Field Codec

Now with two USB ports and support for select 4G Wireless cellular data service modems, the Comrex ACCESS 2USB provides even more flexibility to meet the demands of on-the-go broadcasters. ACCESS codecs now ship with AAC Coding Algorithms included as well as BRUTE (BRIC UDP Transmission Enhancement) to give you a complete complement of tools to get your remote broadcast on the air.

**ACCESS-2USB** Portable IP codec List—\$3,800.00

**BRIC-TS1** BRIC Traversal Server for Access List—\$250.00

**Contact BSW For Lowest Prices**

### Accessories:

**ACCESS-SMALLROADCASE** Small Case List—\$275.00

## ACCESS Portable Mixing Module Adds Even Greater Versatility

This mixer/headphone management module turns the Access Portable into a full-featured 5-channel stereo mixer/codec.

**ACCESSMIXER** List—\$1,200.00

**Contact BSW For Lowest Prices**

- Dedicated stereo channel
- Local channel for local mix monitoring
- Five Mic/Line level switchable mono inputs on balanced XLR
- Five 1/4" TRS headphone jacks
- Stereo pan pots for channel 1 through 4 to accommodate 2 stereo inputs
- Powered by ACCESS Portable (AC or battery)



ACCESS-2USB shown with optional ACCESS MIXER

**COMREX**

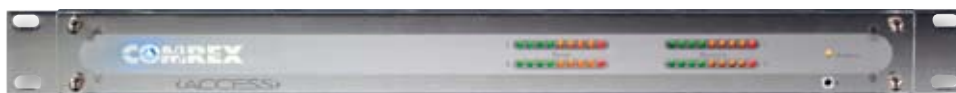


## ACCESS for Your Studio

The 1U ACCESS Rack is optimized for use in a studio or rack room, although it's perfectly at home in a traveling rack. You can control it using a standard web browser and can access it from virtually anywhere.

**ACCESSRACK** ACCESS Rack List—\$3,000.00

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- Balanced stereo XLR I/O and AES I/O on XLR
- Can be directly controlled with a keyboard/video/mouse and a USB touch screen monitor or driven with a standard web browser
- POTS, Cable and DSL
- Wireless Network: 802.11x (Wi-Fi)
- Accommodates connections to 3G/4G/LTE cellular data networks using Comrex supported USB devices
- BRIC Technology for high quality audio over IP

## Comrex BRIC-Link. The Perfect Low Cost STL Solution!

The BRIC-Link is a high-quality, low-cost Audio Over IP solution for full duplex audio transmission over IP links. Simple to configure via a standard web browser, BRIC-Link can be used on a wide variety of IP circuits including T1, WAN, LAN, ISM band IP radios and satellite data links to work as a full blown codec OR as a great, low cost STL solution.

- Superb audio quality with mono and stereo linear modes on circuits with substantial bandwidth
- AAC and HE-AAC modes as well as FLAC lossless compression
- Analog stereo inputs and outputs as well as AES I/O, four contact closures and a RS232 serial control
- Also capable of Multistreaming
- Sold per unit; requires two or more for complete system

**COMREX**

**BRIC-LINK** List—\$1,500.00 per unit

**Accessories:** **BRIC-LINKDRK** Dual Rack Kit List—\$150.00

**Contact BSW For Lowest Prices**



## BSW Has ACCESS Portable Accessories:

Be prepared for any potential SNAFU (no matter how remote) with these handy accessories. Cover all your power needs with a standalone battery charger, spare battery and 12V DC adaptor. And protect your Portable with a super-durable hard case (that can withstand the most ornery baggage handler) as well as soft foam inserts to hold and cushion it.

**ACCESSCHARGE** Standalone battery charger List—\$70.00

**ACCESSBAT** Spare battery List—\$80.00

**ACCESS12VDC** 12V DC Adaptor List—\$25.00

**ACCESS-SMALLROADCASE** Hard travel case List—\$275.00

**Contact BSW For Lowest Prices**

**COMREX**

## Comrex BRIC Traversal Server Software

The BRIC Traversal Server (BRIC TS) makes connecting your ACCESS codecs fast and simple. Maintained by Comrex, it helps keep track of all of your ACCESS codecs no matter where they are on the public Internet. Simply log on to the BRIC TS server, create an account, define a group and list all of your ACCESS units that belong to that group. After each ACCESS is "BRIC TS enabled" and connected to the Internet, they all sync up. A "buddy list" of all of the codecs in your group will appear on the Connections section of each ACCESS showing connection status, IP address and availability. Just select the device that you want to connect to and hit the "Connect" button! Even if you are behind a firewall or on a private LAN, BRIC TS gets you connected. Call BSW today.

**BRIC-TS1** One license List—\$250.00

**BRIC-TS5** Five licenses List—\$650.00

**BRIC-TS10** Ten licenses List—\$1,100.00

**Contact BSW For Lowest Prices**

**BRIC<sub>TS</sub>**  
TRAVERSAL SERVER

**COMREX**

# Drops jaws. Not audio.



Broadband Internet is everywhere. Which makes it ideal for live remotes.

Unfortunately, the internet is also notoriously erratic. Even if you're lucky enough to get a good connection, it might deteriorate during your show. So you dial back the bitrate, sacrificing sound quality to play it safe.

There is a better way.

Meet the amazing new Z/IP ONE codec.

Telos and Fraunhofer collaborated to develop a unique coding algorithm that adapts to changing network conditions on-the-fly.

If your connection quality drops, the Z/IP ONE uses error concealment, elastic buffers, and bitrate adjustments to keep audio flowing at maximum quality.

The Z/IP ONE now makes it possible to use the internet for great sounding remotes.

The convenience of the Internet.  
The sound of Telos.

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AUDIO | NETWORKS  
[www.telos-systems.com](http://www.telos-systems.com)

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## BROADCAST TELEPHONY



Telos is the trusted World Leader in single-line hybrids and multi-line phone systems.

## ZEPHYR IP & ISDN CODECS



With more than 20,000 in daily use around the world, Zephyr is The Best Way to Hear from Everywhere.

## STREAMING AUDIO



Hardware and software products for processing, encoding and streaming your audio content.

## AUDIO LOGGING



PC Software for archiving and logging all of your stations audio.



# Telos: The Leader In IP/ISDN Codecs



## The Best Sound For Low-Bitrate Audio

Zephyr Xstream codecs are specially designed for use with a single ISDN line or other low-bitrate transmission paths including IP networks.

- 2-channel flexibility over a single ISDN circuit (or two synchronous links)
- Can transmit and receive 20kHz stereo audio to and from a single location, or 2 mono channels to and from separate locations
- IP streaming with both MP3 and AAC
- Available in 3 versions: rackmount, portable, with or without mixer

<b>XSTREAM</b>	ISDN studio codec, rackmount, no mixer	List \$5,395.00
<b>XSTREAMMX</b>	ISDN studio codec rackmount with mixer	List \$5,995.00
<b>XSTREAMXP</b>	ISDN portable codec with mixer	List \$5,995.00

**Contact BSW For Lowest Prices**

*Telos*

## IP Codec Handles Toughest Network Conditions

The Telos Z/IP ONE 1RU rackmount codec lets you use public IP networks and mobile phone data services for high quality, trouble free audio transmission with minimal setup and virtually no delay. It utilizes ACT (Agile Connection Technology) to continuously adapt to network conditions, minimizing the effects of packet loss, varying bandwidth, and jitter that can occur on real-world networks. With ACT, the Z/IP uses every bit of the available bandwidth for the best audio performance.



### Agile Connection Technology (ACT) for flawless transmission

- Virtually bulletproof connection traverses firewalls and NATs
- Agile Connection Technology
- Audio I/O via AES/EBU, analog (balanced XLR) and Axia Livewire IP-Audio interface
- Studio-grade 24-bit A/D and D/A converters
- Supports SIP, G.711, G.722, MPEG Layer 2
- Wireless-capable; Wi-Fi, EVDO, UMTS and more

*Telos*

**ZIPONE** List \$1,995.00 **Contact BSW For Lowest Prices**

## Portable POTS/ISDN Codecs

The Telos Zephyr Xport POTS field codec lets you to send high-quality audio over standard phone lines to a Zephyr Xstream ISDN codec back in the studio. The Xport-PI version adds ISDN capability.

<b>XPORT</b>	List \$3,195.00
<b>XPORT-PI</b>	List \$3,695.00

**Contact BSW For Lowest Prices**

### XPORT FEATURES:

- Custom DSP extracts maximum bit rate from standard phone lines
- Groundbreaking CT-accPlus coding improves efficiency 30% over MPEG AA
- Built-in web server for convenient remote and local control
- Independent headphone, receive audio and monitor mixes
- Ethernet port and DB-9 computer connections

### XPORT-PI FEATURES:

- All XPORT POTS features as above, plus additional ISDN mode
- Low Delay AAC, equivalent to MPEG Layer III but with 75% less delay
- Supports G.722 for compatibility to other brand ISDN codecs



*Telos*

*They told me it was easy dealing with BSW, but man, I didn't know it was this easy!*





## Mic Adapter for iPhone 4

Taking radio to the streets – it's ready when you are...

Turn your iPhone 4 with our **Report-IT** app into an ultra-portable, HD quality audio codec and recorder using your choice of pro XLR mic.

[www.tieline.com/micadapter](http://www.tieline.com/micadapter)



**Tieline**®   
The Codec Company



## Genie IP Codec

Built for today, designed for tomorrow...

Created to expand with your network and deliver reliable, rock solid, multi-channel network audio with multiple levels of power, audio and network redundancy

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Contact BSW Today 800-426-8434

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# Cutting Edge Codecs From Tieline And BSW



## Seamless Field Reporting

The Tieline Commander G3 Modular Studio Codec—the only codec in the world that connects via POTS, ISDN and IP now connects with the Report-IT iPhone app for even more remotes. It boasts wired IP Audio on board and accepts all optional Tieline modules. It features comprehensive front-panel hardware control including 4 x LED PPM meters that can be configured to show send/return or user selectable channel mix. It can also be remotely controlled via the Tieline PC GUI.

**COMMBASESTUDIOIP** List—\$2,650.00 **Contact BSW For Lowest Prices**

**Tieline**  
The Codec Company

## Turn Your iPhone Into a Codec!

Turn your iPhone into a 15kHz audio codec and digital recorder with the Report-IT Enterprise app. It uses 3G, 4G or WIFI to a Tieline IP codec in the studio to send live 15kHz audio, or send pre-recorded reports via FTP at 20kHz. Centrally manage and administer all licenses remotely. All the talent has to do is download Report-IT Live Enterprise Edition from the iTunes App Store, open the app and enter a preconfigured password.

**REPORT-IT-LIVE** 10 licenses

**Contact BSW For Lowest Prices**



**Tieline**  
The Codec Company

## Economical Bridge-IT for Remotes, STLs and More

Tieline's Bridge-IT is a low cost point-to-point or multi-point IP audio solution that is ideal for STL, Studio-to-Studio and remotes. With Bridge-IT you need no computer. Offering professional grade audio connectors, it comes in a basic version or a pro version (offering AAC algorithms and multiple unicast).



- Full hardware front panel interface including navigation, LCD display, PPM metering and dialing keypad
- Web GUI for programming codec functionality and RS232 data connections
- G.711 G.722, MPEG Layer 2, plus low-delay Tieline Music and MusicPLUS algorithms
- Multiple-unicast over LANs and send 6 stereo connections, one with bidirectional audio (Pro version only)
- LC-AAC, HE-AAC v.1 and HE-AAC v.2 algorithms (Pro version only)

**BRIDGE-ITBASIC** Basic Version List—\$1,495.00  
**BRIDGE-IT** Pro Version List—\$2,095.00

**Contact BSW For Lowest Prices**

**Tieline**  
The Codec Company

## Connect Your Mic to iPhone for Superior Audio

Tieline's Mic Adapter is a 20Hz-20kHz CD-quality digital audio input device that enables you to attach your favorite dynamic pro microphone to an iPhone 4\*. Other interfaces roll off quickly after 200Hz reducing the richness of the audio quality. Mic Adapter delivers a full octave of richer, warmer, low frequency response from 20Hz to 200Hz and perfectly reproduces the mid and high frequency ranges.

**MIC-ADAPTER** List—\$495.00

**Contact BSW For Lowest Prices**

**Tieline**  
The Codec Company



## Give Your Tieline G3 Codec New Life!

Tieline's 4G USB Module lets your codec interface with the Pantech® UML290 4G LTE USB Modem (not included) and broadcast live over the Verizon Wireless™ 4G network (3G also supported). Compatible with Tieline's Commander G3 Field and i-Mix G3 remote broadcast codecs, it supports both 4G LTE (700MHz) and CDMA 1xEV-DO Rev. A/ Rev. 0 networks (800/1900 MHz), as per modem specifications.

**USB-4G-MODULE** List—\$600.00

**Contact BSW For Lowest Prices**



**Tieline**  
The Codec Company

**Tieline**  
The Codec Company

## 5-Channel Codec w/ Wired IP & POTS Audio

Doing more comprehensive mixing in the field? The i-Mix G3 features a full six-input mixer (5 XLR mic and 1 RCA line) for multiple personalities, and incorporates an expansion slot allowing you to select from a range of modules, including wireless IP, ISDN, and more. Note: the IMIXG3 comes standard with wired IP audio capability and mono POTS for use with regular phone lines.

**IMIXG3** I-MIXG3 with mono POTS and Wired IP module List—\$3,800.00  
**COMM3GMOD** Wireless Broadband IP card module (specify carrier) List—\$995.00  
**COMMISDNMOD** ISDN module (stereo/dual mono) List—\$1,095.00  
**COMMPOTSMOD** Additional POTS module List—\$550.00

**Contact BSW For Lowest Prices**



## Customize Your Codec!

The Commander G3 Field IP codec features two module slots that accept your choice of hardware plug-in modules. A single wired IP module is included.

- 2 expansion slots that accept your choice of IP, 3G/3.5G/4G, POTS/PSTN, ISDN, X.21, GSM and B-GAN satellite plug-in modules
- A suite of algorithms to suit all your live broadcasting requirements
- Configurable 14 x 8 cross-point Digital Matrix Audio Router (DMR)

**COMMBASEFIELDIP** Field chassis mono with Wired IP module List—\$2,650.00  
**COMM3GMOD** AT&T, Verizon or Sprint wireless IP module List—\$995.00  
**COMMISDNMOD** ISDN module List—\$1,095.00  
**COMMBATMOD** Rechargeable battery module List—\$450.00

**Contact BSW For Lowest Prices**



**Tieline**  
The Codec Company





SPORTY



FLASHMANII

## Portable and Studio Codecs w/Digital Recorder

Need a complete digital recorder and IP codec in one? The economical MAYAH Flashman II is all things in one chassis. This ultra-small and ergonomic device combines linear or MPEG audio recording with up to 20 kHz on-air bandwidth via IP or 3G (3G card sold separately). Its Automatic Jitter Compensation makes sure your quality is the best getting through your networks. It features 2 switchable Mic/Line XLR inputs with 48V phantom power combined with 1 stereo line out and 1 send/receive controllable stereo headphone output. The Flashman II provides MPEG L2/L3/AAC, MPEG 4 AAC HE, MPEG 4 ELD, G.711/G.722, and linear audio. You record simultaneously on SD-cards or USB sticks while being On Air! Or you record first and then send a digital audio file. This is the future of portable digital devices.

The larger MAYAH Sporty portable IP/ISDN codec provides 20 kHz bandwidth over 3G broadband and POTS (cards sold separately) and is even FlashCast compatible with many other IP/ISDN codecs on the studio end. Reporting from any remote events, Sporty can then bring your audio on-air via IP, ISDN, POTS and 3G (so you are ready no matter what the situation). Sporty adds low delay with MPEG 4 AAC ELD. The

Sporty is exceptionally compact – and yet it even contains a built-in 4 channel mixer! The Sporty has 2 built-in switchable Mic/Line XLR inputs with 48V phantom power and 2 balanced line inputs combined with 2 stereo headphone outputs. With the Sporty you can even record simultaneously on SD-cards or USB sticks while being live On Air. Now, you won't miss what you reported and you may reuse it again for other purposes. Rugged housing will handle years of abuse and keep looking good.

For a powerful studio IP or ISDN codec, look no further than the MAYAH C11 series. With many different models, all with the same high-quality build and modern functionality, you'll get state-of-the-art codecs for years of reliable transmission.

<b>FLASHMANII</b>	Digital reporter IP codec	List \$3,450.00
<b>F-3G</b>	3G card for FLASHMANII	List \$454.00
<b>SPORTY</b>	Digital reporter IP/ISDN codec with 4-chnl mixer	List \$4,995.00
<b>SP-POTS</b>	POTS card for SPORTY	List \$295.00
<b>SP-3G</b>	3G card for SPORTY	List \$454.00

**Contact BSW For Lowest Prices**



C1131N

## German-Engineered IP/ISDN Codecs

MAYAH: the #1 codecs from Germany are always available at BSW! The C11 series offers many different models for IP and ISDN, including some with redundant IP connections for the most reliable streaming solution. Call your BSW sales representative today to discuss your MAYAH needs and get the right model for your application.

The C1131 (standard version) is a powerful, fully scalable bi-directional codec with display and keypad control that boasts the most modern Audio via-IP architecture and audio coding formats while providing an efficient economic solution for broadcasters. It offers G.711, G.722, L2, L3, MPEG 2/4 ACC, MPEG 4 AAC HEv2, MPEG 4 AAC ELD, Linear Audio (16-24 bit) and DAT algorithms with balanced XLR and AES/EBU I/O. The new ultra-economical C1131N has the same extensive feature set as its bigger brother, but comes with G.711, G.722, L2, L3 and Linear algorithms and can be user-upgraded with other C1131 standard algorithms if needed.

The bi-directional C1141 is designed specifically for ISDN and IP, as an ISDN codec with IP Control for management or as a codec for both ISDN and IP. The ISDN stack boasts many d-channel protocols and international connectivity. It can connect to portable devices such as the MAYAH Sporty and Flashman II as well as other, third party vendors, and can talk to RTP and SIP, the basic technology for corporate and public networks. It offers G.711, G.722, MPEG L2/L3, MPEG-2/4 AAC, MPEG-4 HE AACv2, Linear (16 - 24 bit), DAT (Lin.12 bit) algorithms with balanced XLR and AES/EBU I/O and extensive LED metering.



C1141



C1191

Need a complete digital recorder and IP codec in one? The economical Flashman II is all things in one chassis. This ultra-small and ergonomic device combines linear or MPEG audio recording with up to 20 kHz on-air bandwidth via IP or 3G (3G card sold separately). Its Automatic Jitter Compensation makes sure your quality is the best getting through your networks. It features 2 switchable Mic/Line XLR inputs with 48V phantom power combined with 1 stereo line out and 1 send/receive controllable stereo headphone output. The Flashman II provides MPEG L2/L3/AAC, MPEG 4 AAC HE, MPEG 4 ELD, G.711/G.722, and linear audio. You record simultaneously on SD-cards or USB sticks while being On Air! Or you record first and then send a digital audio file.

The top-of-the-line C1191 dual IP codec is what you need for 24/7 streaming audio-via-IP. The C1191 provides two fully redundant working Ethernet connections for ultra-rock solid IP transmissions. It utilizes FEC and AJC minimizing the effects of changing bandwidth and packet loss. It combines automatic strategies for concealment and audio format adaptation. With its user friendly browser web-interface to be accessed from Windows, MAC OS and Linux, it simplifies any complicated situation. Other features include: Audio I/O via AES/EBU and analog, headphone output; SD card slot for audio storage card; 24-bit A/D-D/A; web-server for browser control; optional apt-X and Eapt-X (sold separately); and more. See the entire C11 line at [www.bswusa.com](http://www.bswusa.com).

Try MAYAH and join its worldwide club of satisfied customers, and take advantage of our extra low pricing and budget-saving package deals!

<b>C1131N</b>	IP codec	List \$1,995.00
<b>C1141</b>	IP/ISDN codec	List \$3,495.00
<b>C1131</b>	Single IP rackmount codec	List \$2,195.00
<b>C1191</b>	Dual redundant IP rackmount codec	List \$2,995.00
<b>C11APT</b>	Apt-X algorithm for C11 series codecs	List \$679.00

**Contact BSW For Lowest Prices**



**"Can't decide? Call me for additional product info and detailed advice."**

— Justin Warbreck, Sales Representative

# WorldCast From APT

EQUINOX



## Fully Duplex Stereo Audio Codec

The APT WorldCast Equinox is a multi-algorithm, fully duplex, stereo audio codec offering IP, ISDN and X.21 / V.35 connections. Designed primarily for studio to transmitter links and inter-studio networking applications, it provides an ultra-reliable platform for the transport of broadcast-grade audio. It comes with APT's Codec Management Software that can provide network control from a single seat.

The WorldCast Equinox is available as a base unit, controlled by the software, or with the optional front panel (shown in picture), controlled by either software or panel controls.

### EQUINOX EQUINOXPANEL

Base unit List \$4,280.00  
Front panel option List \$4,280.00

**Contact BSW For Lowest Prices**



## Affordable, Effective IP Audio Encoder and Decoder

The APT Stream-In Silver is a highly affordable IP audio encoder offering reliable and robust encoding of audio content over IP networks. A large range of algorithms including Enhanced apt-X, MPEG 4 AAC-HE and linear audio are available on the compact unit. It is fully compatible with all other APT and N/ACIP compliant codecs. The Stream-Out Silver IP Audio decoder handles a wide range of professional and consumer audio formats. It offers headphone monitoring, audio backup with either an on-board USB port or ShoutCast server, embedded auxiliary data and auto-detection of an incoming IP stream.



STREAM-IN SILVER

**STREAM-IN SILVER** Encoder List \$800.00  
**STREAM-OUT SILVER** Decoder List \$650.00

**Contact BSW For Lowest Prices**



ASTRAL



## Versatile, Modular IP Audio Codec

The APT WorldCast Astral IP audio codec is a rock-solid IP STL platform offering a full complement of professional audio delivery algorithms, including Linear PCM (16 bit and 24 bit resolution), Enhanced apt-X algorithm (16 bit and 24 bit), MPEG Layer II, MPEG Layer III, G.711 and G.722. With its modular architecture, broadcasters can then bolt-on additional functionality to meet their broadcast needs. Note: image shows Astral base unit with optional front panel.

**ASTRAL** Base unit List \$3,600.00  
**ASTRAL-PANEL** Front panel option List \$350.00

**Contact BSW For Lowest Prices**

- High quality audio transport over IP networks using RTP/UDP and SIP/SDP
- Dual IP ports for separate streaming and control
- Multiple algorithms for maximum compatibility
- Redundant power supplies for maximum reliability
- Advanced facility remote control at studio and transmitter site



## Broadcast-Grade Audio Even Over Inexpensive IP

The APT WorldCast Horizon NextGen IP audio codec boasts patented SureStream technology to deliver the audio quality and reliability you expect from a T1/E1 link using inexpensive public Internet connections such as ADSL, wireless 3G and 4G, LAN, WAN and Wi-Fi. It also offers a wide range of algorithms as standard on a solid DSP platform with dual IP ports and redundant power supplies. Perfect for STLs and mission-critical applications, the WorldCast Horizon NextGen provides extensive control and monitoring capabilities to manage both your audio, data and network conditions and other equipment located at the transmitter site. Note: image shows base unit with optional front panel.

**HORIZON-NEXTGEN** List \$2,250.00

**Contact BSW For Lowest Prices**

- SureStream technology enables broadcast-grade audio over inexpensive IP links
- Dual IP ports for dual streaming applications or separate control/streaming
- DHCP for automatic configuration of IP connection settings
- Wide range of algorithms: Enhanced apt-X algorithm, Linear PCM, G.722, G.711, MPEG 1/2 Layer 2, MPEG Layer 3 CBR and MPEG Layer 3 VBR
- Non-destructive, cascade-resilient coding with Enhanced apt-X
- Embedded auxiliary data for transmission of RBDS / RDS or PAD
- Up to 4 opto-coupled inputs and up to 4 relay outputs
- Audio backup from SD card or USB
- Fast boot time for mission-critical environments
- Support for SNMP, Alarm and Event Logging



Why don't we print our prices? We are constantly negotiating with our vendors, buying in bulk and putting together special packages to bring you the best price every day.



## Codec Product Selector - Check the specs and find the codec that's the right fit for you!

Manufacturer	Product	Phone Service Type	Audio Inputs	Mono/Stereo	Connections	Size	List Price
AEQ	EAGLE	ISDN	analog/digital	Mono/Stereo	MPEG 2 - 3 G.722	1RU	\$2,995
AEQ	PHOENIXMOBILE	POTS-ISDN-IP-3G	3 ch mxr	Mono/Stereo	Multiple	PORT	\$2,995 +
AEQ	PHOENIXMOBILE FE	POTS-ISDN-IP-3G BATT.	3 ch mxr	Mono/Stereo	Multiple	PORT	\$4,820 +
AEQ	PHOENIXSTUDIO	2xIP -ISDN-POTS -3G	analog/digital	Mono/Stereo	Multiple	1RU	\$2,585 +
APT	ASTRAL	IP & ISDN	analog/digital	Mono/Stereo	Multiple	1RU	\$3600 +
APT	EQUINOX	IP & ISDN	analog/digital	Mono/Stereo	Multiple	1RU	\$4280 +
APT	HORIZON-NEXTGEN	IP	analog/digital	Mono/Stereo	Multiple	1RU	\$2250
AUDIO COMP	AC-COMBO-1	IP single license	AUDIO SOFTWARE	Mono/Stereo	Multiple	Softw	\$200
BARIX	INSTREAMER100	MP3 IP encoder	analog/digital rca s/pdif	Mono/Stereo	MP3	PORT	\$395
BARIX	EXTREAMER100	MP3 IP decoder	analog/digital rca s/pdif	Mono/Stereo	MP3	PORT	\$195
BARIX	EXSTREAMER110	MP3 IP decoder w/display	analog/digital rca s/pdif	Mono/Stereo	MP3	PORT	\$249
BARIX	EXSTREAMER500	IP ENCODER-DECODER	balanced analog	Mono/Stereo	Multiple	PORT	\$595
BARIX	EXSTREAMER1000	NETW ENCODE-DECODER	balanced analog + AES-EBU	Mono/Stereo	Multiple	PORT	\$950
BARIX	ANNUNCIOM100	IP ENCODER-DECODER	mic/line	Mono/Stereo	Multiple	PORT	\$395
COMREX	ACCESS-2USB	IP, POTS, AAC	mic/line + opt 5 ch mxr	Mono/Stereo	BRIC, POTS, USB	PORT	\$3,800 +
COMREX	ACCESSRACK	IP & POTS + opt AAC	XLR & AES/EBU	Mono/Stereo	BRIC & POTS	1RU	\$3,000 +
COMREX	BRIC-LINK	IP	analog/digital	Mono/Stereo	Multiple	PORT	\$1,500
DIGIGRAM	PYKO-IN	IP AUDIO INTERFACE	analog/digital	Mono/Stereo	MP3 & PCM IP	PORT	\$715
DIGIGRAM	PYKO-OUT	IP AUDIO INTERFACE	analog/digital	Mono/Stereo	MP3 & PCM IP	PORT	\$525
DIGIGRAM	PYKO-OUT PNP	IP AUDIO INTERFACE	analog/digital w/ 8gb USB	Mono/Stereo	MP3 & PCM IP	PORT	\$525
MAYAH	FLASHMANII	IP - 3G	Transmit & Record simul	Mono	Multiple	PORT	\$3,450
MAYAH	SPORTY	IP-ISDN-POTS-3G	Transmit & Record simul	Mono	Multiple	PORT	\$4,995
MAYAH	C11 SERIES	IP-ISDN-POTS-3G	analog/digital	Mono/Stereo	Multiple	2RU	varies w/ config
TELOS	XSTREAM	ISDN	analog/digital	Mono/Stereo	Multiple	2RU	\$5,195
TELOS	XSTREAMMX	ISDN	4 ch mxr	Mono/Stereo	Multiple	2RU	\$5,695
TELOS	XSTREAMMXP	ISDN	5 ch mxr	Mono/Stereo	Multiple	PORT	\$5,795
TELOS	XPORT	POTS	mic/line	Mono	MPEG-AACPLUS	PORT	\$2,995
TELOS	XPORT - PI	POTS & ISDN	mic/line	Mono	MPEG-AACPLUS	PORT	\$3,229
TELOS	ZIPONE	IP	BALANCED XLR analog	Mono/Stereo	MPEG coding	1RU	\$1,995
TIELINE	COMMBASEFIELDIP	IP + opt. POTS, ISDN	2 ch mxr	Mono/Stereo	Multiple	PORT	\$2650 +
TIELINE	COMBASESTUDIOIP	IP + opt. POTS, ISDN	analog or digital	Mono/Stereo	Multiple	2RU	\$2650 +
TIELINE	IMIXG3	POTS - IP + opt ISDN	5 chr mxr	Mono/Stereo	Multiple	PORT	\$3800 +
TIELINE	BRIDGE-IT	IP w/multiple streams	mic/line analog & AES I/O	Mono/Stereo	Multiple	PORT	\$2095 +
TIELINE	BRIDGE-IT BASIC	IP w/single stream	mic/line	Mono/Stereo	Multiple	PORT	\$1495 +
TIELINE	REPORT-IT-LIVE	IP	I-PHONE APP	Mono	Phone	PORT	\$399

*You see kids? BSW's Ohio warehouse is centrally located for fast shipping anywhere in the nation!*

